Paper Trade Journal—Volume 149—Year 1965

Index to Feature Articles

The articles listed below are cross-referenced for the convenience of users. Short items and news stories are not included in this index.

Issue

Alkaline Pulping

Flame Safeguards and Other Safety Instrumentation in Recovery Boilers —A. S. Davis .....p. 36 Aug. 23

Kinetic Analysis of Odor Formation in Kraft Pulping. —William T. McKean, Jr., Bjorn F. Hrutford and K. V. Sarkanen ...p. 41 Aug. 30

Kraft . . . Today's Strength . . . Tomorrow's Challenge. —Charles P. Klass .....p. 26 July 5

New Kraft Pulp Mill of Kymin Osakeyhtio—Kymmene Now in Operation. —P. C. Michelsson .....p. 42 Apr. 26

New Systems Proposed for Kraft Mill Odor Control and Heat Recovery. —T. T. Collins, Jr. .....p. 34 May 31

Trends and Developments in Pulping. —G. H. Tomlinson II .....p. 62 Nov. 8

Vinyl Lined Lagoon Solves Riegels Black Liquor Storage Problem. —Charles P. Klass .....p. 34 Mar. 29

Well-Known Calaisienne Mill Adds Kraft Pulping. —Bernard de la Touche .....p. 34 Mar. 22

Board Manufacturing

Accurate Footage Counts Reduce Broke Losses. —Sol Steinberg .....p. 48 Apr. 5

Breakthrough in Rotoformer Design Permits 1000 f.p.m. Speeds. .....p. 60 Feb. 23

CCC's Los Angeles Coating Installation Completes Coast-to-Coast Program. —Charles P. Klass .....p. 30 Aug. 23

Coating Cylinder Machine Board—Key to an Improved Market Position. —Robert A. Diehm .....p. 42 June 28

Issue

Control of Headbox Variables Can Improve Machine Operation. —J. Mardon, D. W. Manson, B. I. Howe and J. C. DeLisle .....p. 42 Jan. 11

Cooking and Use of Starch in Papermaking and Coating —S. Rogols and R. L. High .....p. 44 Dec. 13

Cylinder Machine Drives—Then and Now—I. —Raymond L. Schrock .....p. 36 July 5

Cylinder Machine Drives—Then and Now—II. —Raymond L. Schrock .....p. 52 July 12

Cylinder Machine Operating Problems —A Troubleshooter's Guide. —E. M. Baker .....p. 44 July 26

Cylinder Machine Stock Preparation—Screening, Refining and Control. —E. M. Baker .....p. 48 Feb. 8

Cylinder Machine Vat Operation—Key to Improved Grade Capabilities. —Robert A. Armstrong .....p. 41 Mar. 22

Felt Application for Cylinder Machines—I. —L. H. Brown and M. H. Rubeck ...p. 43 Apr. 5

Felt Application for Cylinder Machines—II. —L. H. Brown and M. H. Rubeck ...p. 51 Apr. 19

Finish Mill Experience With the Divided Press. —Kai K. Nalsas .....p. 42 Apr. 19

Forming Boxes Increase Production and Improve Quality. —O. Svensson and O. Brauns .....p. 38 Apr. 5

Halltown Modernizes and Doubles Production of Cylinderboard Grades. —Roger A. Harriman .....p. 46 June 21

How and Why of Rotoformer Operation. —Martin B. Keller .....p. 34 Aug. 16

How Wet End Variables Affect Basis Weight Uniformity. —J. Mardon, D. W. Manson, B. I. Howe and J. C. DeLisle .....p. 36 June 28

	Issue
Hydrofoil Design and Application Is an Evolving Science. —B. A. Thorp ..... p. 37	Jan. 11
Improving Cylinder Board Finishing —Calendering, Reeling and Sheeting. —Fritz B. Grunwald ..... p. 53	Nov. 29
Improve Stock Delivery—Make Better Cylinder Board. —Karl J. Knauer ..... p. 32	Jan. 25
Machine Problems and Paper Uniformity. ..... p. 50	Dec. 13
Moisture Measurement and the Progressive Papermaker —L. D. Edenborough ..... p. 30	Dec. 20
NPA Holds Outstanding Annual Meeting. —John C. W. Evans ..... p. 42	Nov. 29
New Attachment Improves Calender Stack Operation. —Paul M. Schaffrath ..... p. 57	Nov. 22
New Cylinder Former Designs— Necessary for Survival? —Robert A. Armstrong ..... p. 43	Mar. 15
New Cylinder Vat Inlet Design Proved Out at Lynchburg ..... p. 40	Jan. 20
New Design in Conventional Bottom Felt Improves Finish of Cylinder Boards. —Donald R. Boyer ..... p. 34	Jan. 4
New Fabric Press Development Greatly Simplifies Operation. —A. Eiderbrant and O. Swanberg .. p. 32	June 28
New Packaging System for Skids of Paperboard. ..... p. 50	June 7
New Suction Box Design and Cover Material ..... p. 38	Jan. 18
New "Vacu-foils" Provide Adjustability, High Dewatering Power. —R. C. Clark ..... p. 52	June 21
Norwegian Moisture Controller Uses Temperature Drop Principle ..... p. 70	Aug. 9
Operating Experiences With Controls of Totally Enclosed Hoods. —William Swanson ..... p. 25	Feb. 1
Operating of Cylinder Board Machine Dryers, Smoothing Press and Size Press. —Fritz B. Grunwald ..... p. 56	Nov. 15
Paper Machine Draw and Speed Control at S. D. Warren. —Arnold Cliff ..... p. 30	Feb. 1
Progress Report on Felt Application For Venta-Nip Grooved Rolls. —David McConaughy ..... p. 41	July 5
Progress Report on Inverform Installations. —L. A. Lawrence ..... p. 50	June 14
Providing Accurate Footage Counts of Winder Rolls. —Al Vickery ..... p. 28	Feb. 1
Refiner Control From Couch Vacuum. —William R. Nelson ..... p. 22	Feb. 1
Selection and Use of Secondary Fibers in Cylinder Board Manufacturing. —O. P. Fussell ..... p. 78	Dec. 6
Simple Ratio Computer for Paper Machines Shows Many Advantages .. p. 54	Feb. 22
Stainless Steel Wires Average Sixty Days, Cut Costs at Kingsport ..... p. 52	Feb. 22
Stainless Steel Wires Setting Records At Nicolet Paper Co. ..... p. 55	June 7
Stock Buying, Feeding and Cleaning— First Steps to Cylinder Machine Profit. —E. M. Baker ..... p. 30	Jan. 4
Water Removal at the Cylinder Machine Wet End. —E. M. Baker ..... p. 46	July 19
Web Guiding and Control in the Paper Industry. —William M. Gallahue ..... p. 38	Mar. 29
Where Are We Going in Paperboard Packaging? —George [illegible]yerhaeuser p.61	Nov. 15
What Is A G[illegible] Why Is It Used? How Is It Applied? And Where? —A. J. Winchester ..... p. 38	Dec. 20
White Water and Effluent Systems for Cylinder Machine Mills. —Karl J. Knauer ..... p. 32	Jan. 11

Bleaching

Bleach Plant Chlorination Stage— Problems and Solutions. —Brian L. Shera ..... p. 42	April 12
Fluidized-Solids Lime Increases Bleaching Liquor Yield by Ten Per Cent. —Herbert Freedman ..... p. 50	July 12
K-C's Chasta Mill Boasts World's First Reinforced Plastic Continuous Flow Bleach Towers ..... p. 30	Aug. 16

Coating

The ABC's of Coating Additives. —Alfred H. Nadelman and Gunther H. Baldauf ..... p. 43	Nov. 1

	Issue
CCC's Los Angeles Coating Installation Completes Coast-to-Coast Program. —Charles P. Klass ... p. 30	Aug. 23
Coating Pigments—Their Use In Formulations —Alfred H. Nadelman and Gunther H. Baldauf ... p. 70	Sept. 13
Coating Formulation—Principles and Practices. —Alfred H. Nadelman and Gunther H. Baldauf ... p. 73	Aug. 9
Coating Cylinder Machine Board—Key to an Improved Market Position. —Robert A. Diehm ... p. 42	June 28
Coating Colors Must Be Formulated to Fit the Application Equipment. —Alfred H. Nadelman and Gunther H. Baldauf ... p. 82	Dec. 6
Coating Adhesives—Their Use In Formulations. —Gunther H. Baldauf and Alfred H. Nadelman ... p. 46	Oct. 4
Coloring Materials for Coating Formulations. —Alfred H. Nadelman and Gunther H. Baldauf ... p. 50	Oct. 18
Cooking and Use of Starch in Paper-making and Coating. —S. Rogols and R. L. High ... p. 44	Dec. 13
CZ's Versatile Multi-station Coater Opens New Converting Horizon. —Arthur N. Aronsen ... p. 42	May 10
Fletcher Enters Office Copy Paper Field With Multi Process Coating Line. —Charles P. Klass ... p. 50	Nov. 29
High Attendance and Lively Discussion —Features of Coating Conference. —Charles P. Klass ... p. 48	May 24
Jagenberg's Linnich Converting Plant Features Unusually Flexible Coaters ... p. 40	May 3
Kalamazoo Paper Co. Replaces Brush Coaters with High Speed Air Knife. —Charles P. Klass ... p. 42	Oct. 25
Kalamazoo Valley TAPPI Reviews Coating and Printing ... p. 53	May 10
Northwest's Mountie Joins Coates Printing Paper Ranks. —Harry Dyer ... p. 70	Oct. 11
Plastics-Paper Conferees Recognize Communication Problem. —Charles P. Klass ... p. 54	Oct. 25
Printing Methods Dictate Coating Formulations. —Alfred H. Nadelman and Gunther H. Baldauf ... p. 74	Aug. 9
Use of Titanium Dioxide in Paper Coatings ... p. 43	Jan. 18
What Do Coating Pigments Have In Common? —Alfred H. Nadelman and Gunther H. Baldauf ... p. 42	Aug.16
What do Coating Adhesives Have in Common? —Alfred H. Nadelman and Gunther H. Baldauf ... p. 57	Sept. 6
What the Formulator Needs to Know About Coating Color Preparation Systems. —Alfred H. Nadelman and Gunther H. Baldauf ... p. 66	Nov. 15

Converting Operations

	Issue
CZ's Versatile Multi-Station Coater Opens New Converting Horizon. —Arthur N. Aronsen ... p. 42	May 10
Developments in Multiwall Sacks—Construction, End Uses, Barrier Sheets and Adhesives. —R. P. Kessler ... p. 50	Sept. 6
Fletcher Enters Office Copy Paper Field With Multi-Process Coating Line. —Charles P. Klass ... p. 50	Nov. 29
Future of Paper and Board in Frozen Food Packaging. —Shel Duncan ... p. 48	May 3
Jagenberg's Linnich Converting Plant Features Unusually Flexible Coaters ... p. 40	May 3
Kalamazoo Paper Co. Replaces Brush Coaters with High Speed Air Knife. p. 42	Oct. 25
Modernized Material Handling Cuts Shipping Costs at Keyes Fibre Co. —John T. Sutton ... p. 34	July 26
New Concept in Multiwall Bag Design. —R. C. McDowell ... p. 51	May 17
Paper Bags Show Steady Growth—Producers Optimistic for Future. —M. R. Castagne ... p. 43	May 24
PAPER CANS—Most Dynamic Converting Operation Today. —Glenn Mather ... p. 55	May 17
Plastics-Paper Conferees Recognize Communication Problem. —Charles P. Klass ... p. 54	Oct. 25
Recent Trends in Folding Carton Construction. —W. O. Kroeschell ... p. 46	Mar. 22

	Issue
Resin and Resin Blend Adhesives for Converting. —E. Patrick McGuire and Leonard Toland ... p. 57	Feb. 22
Revolution in Prepackaging of Fruits and Vegetables. —C. A. Spaulding ... p. 32	Mar. 15
Revolution in the Process of Watermarking. —Dr. H. P. Dixson ... p. 45	Aug. 30
Rex Paper Co. Converts School Supply Papers into Profits. —Charles P. Klass ... p. 60	Oct. 11
Shipper Cuts Damage Claims with New Wrapper Barrier ... p. 48	Sept. 6
Starch and Dextrine Adhesives for Converting. —E. Patrick McGuire and Leonard Roland ... p. 36	Jan. 25
Wax Treated Corrugated Boxes are Finding Growing Use. —George A. Weisgerber ... p. 50	May 10
Where Are We Going in Paperboard Packaging? —George H. Weyerhaeuser ... p. 61	Nov. 15
Which and How of Adhesive Application in Converting. —E. Patrick McGuire and Leonard Roland ... p. 32	Mar. 1

Engineering

Breakthrough in Rotoformer Design Permits 1000 f.p.m. Speeds ... p. 60	Feb. 22
Cylinder Machine Drives —Then and Now—I. —Raymond L. Schrock ... p. 36	July 5
Cylinder Machine Drives —Then and Now—II. —Raymond L. Schrock ... p. 52	July 12
A Double Volute Pump Casting Is Not A Panacea. —J. A. Cable ... p. 39	Aug. 30
The Engineering Challenge in the Coming Years ... p. 47	Sept. 27
Forming Boxes Increase Production and Improve Quality. —O. Svensson and O. Brauns ... p. 38	Apr. 5
From Where are We Going to Get the Engineers? ... p. 32	May 3
Hows and Whys of Packing and Gaskets. —William J. Bowler ... p. 63	Oct. 11
How Major Paper Machine Rebuild Was Done with Minimum Downtime. —J. M. Hammon ... p. 30	Mar. 1
How to Develop, Present and Control the E & R Budget. —Bert Carson ... p. 43	Oct. 4
Hydrofoil Design and Application Is An Evolving Science. —B. A. Thorp ... p. 37	Jan. 11
New Attachment Improves Calender Stack Operation. —Paul M. Schaffrath ... p. 57	Nov. 22
New Fabric Press Development Greatly Simplifies Operation. —A. Eiderbrant and O. Swanberg ... p. 32	June 28
New Kind of Grinder in Operation at Swedish Mill. —Allan U. Westvind ... p. 26	Jan. 4
New Suction Box Design and Cover Material ... p. 38	Jan. 18
New "Vacu-foils" Provide Adjustability, High Dewatering Power. —R. C. Clark ... p. 52	June 21
Organization and Practice of Industrial Engineering in the Smaller Company. —William D. Chandler ... p. 42	May 31
The Standing Job Order—An Asset or Liability? —Bert Carson ... p. 64	Nov. 15
Survey Shows Salaries of Paper Industry Engineers. —Charles P. Klass ... p. 54	Oct. 18

Finishing

Accurate Footage Counts Reduce Broke Losses. —Sol Steinberg ... p. 48	Apr. 5
Columbia Ribbon and Carbon Mfg. Co. Develops Own Sheet Inspection Unit. —Charles P. Klass ... p. 70	Dec. 6
First Automatic Splice for Supercalenders. ... p. 47	Nov. 29
Hammermills New In-Process Roll Storage System Uses Overhead Crane ... p. 44	Mar. 22
How to Optimize Sheeter Productivity. —Richard E. Bryant ... p. 44	May 3
Improving Cylinder Board Finishing— Calendering, Reeling and Sheeting. —Fritz B. Grunwald ... p. 54	Nov. 29
New Design of High Speed Rotary Cutter. —Leslie S. Pearson ... p. 57	June 7
New Packaging System for Skids of Paperboard ... p. 50	June 7
Shipper Cuts Damage Claims With New Wrapper Barrier ... p. 48	Sept. 6

		Issue
Temperature Build-Up in Filled Supercalender Rolls—Its Nature and Possible Elimination. —K. O. Larsson and A. Gregersen	p. 39	Aug. 16
Tileston & Hollingsworth Gears up to Give Same Day Service. —Charles P. Klass	p. 55	Apr. 26
Wiggins Teape Uses Sorter-Cutter To Improve Coated Paper Quality	p. 24	Dec. 27

Forecasts

Canadian Expansion is Coast to Coast.	p. 48	Nov. 8
Capacity Survey Shows Mixed Picture. —John C. W. Evans	p. 44	Nov. 29
Current and Propose New Mill, Major Modernization and Expansion Projects	p. 41	Jan. 25
Financial Review Of Paper Industry for 1965 —Alexander Bing III	p. 29	Dec. 27
How to Find Your Way Among the B.C. Mill Projects. —Pat Carney	p. 54	Nov. 8
A Look Ahead at the Pulp and Paper Industry. —A. Kenneth Beggs	p. 37	Mar. 8
New Mills and Machines—Canada Plans Tentative, Proposed or Nebulous.	p. 52	Nov. 8
New Mills and Major Expansion—U.S.	p. 28	Aug. 30
New Mills and Major Expansions, Canada—Confirmed and Underway	p. 49	Nov. 8
Paper Explosion in the Institutions Market. —Fergus McKeever	p. 72	Dec. 6
Paper Industry Prospects Rise, Kimberly-Clark Survey Shows.	p. 37	Aug. 30
Previewing the Marketplace of 1975. —James W. McSwiney	p. 40	Feb. 15
What Happened in '64 —Outlook for '65. —B. Slatin	p. 33	Jan. 18

Instrumentation

Columbia Ribbon and Carbon Mfg. Co. Develops Own Sheet Inspection Unit. —Charles P. Klass	p. 70	Dec. 6
Effective Instrumentation or Mere Hardware Application—Which are You Getting? —G. L. Garman	p. 44	Apr. 19
Flame Safeguards and Other Safety Instrumentation in Recovery Boilers. —A. S. Davis	p. 36	Aug. 23
How Hammermill Achieved Clean, Dry Instrument Air. —LeMoin M. Shadduck	p. 51	July 19
How the Wolvercote Paper Machine Computer Installation Operates. —A. W. Sidebottom	p. 32	Aug. 16
Instrumentation to Automation—The Machine Builder's Problem. —P. N. Schaffrath	p. 24	Feb. 1
Moisture Measurement and the Progressive Papermaker. —L. D. Edenborough	p. 30	Dec. 20
Norwegian Moisture Controller Uses Temperature Drop Principle	p. 70	Aug. 9
Providing Accurate Footage Count of Winder Rolls. —Al Vickery	p. 28	Feb. 1
Refiner Control from Couch Vacuum. —William R. Nelson	p. 22	Feb. 1
Simple Ratio Computer for Paper Machines Shows Many Advantages	p. 54	Feb. 22
Some Experiences in Starting a New Pulp Mill. —Ralph E. McCallum	p. 37	Jan. 4

International

Canadian Consolidated Installs New Machine at Wayagamack	p. 36	Apr. 12
Canadian Expansion is Coast to Coast.	p. 48	Nov. 8
Canadian Industry—Highs in All Areas. —R. M. Fowler	p. 36	Feb. 8
Celulosa Argentina Has Continuous Digester on Cold Soda	p. 48	May 17
Dutch Mill Expands Production of Coated Printing Papers	p. 30	Jan. 11
English Mill Starts Up New Lightweight Fine Paper Machine	p. 46	Oct. 25
First Sanitary Tissue Mill for Puerto Rico.	p. 46	May 10
How Pakistan's Khulna Newsprint Mill Gets Its Pulpwood	p. 66	Aug. 9
How to find your Way Among the B. C. Mill Projects. —Pat Carney	p. 54	Nov. 8
Indian Mill Produces Printing Papers from Bagasse Pulp. —D. K. Misra	p. 47	Apr. 26
Industry Makes Sixth Consecutive New High in 1964. —Morris C. Dobrow	p. 41	Mar. 1
Integrated Kraft Pulp, Paper Multiwall Sack Complex is First in Rumania.	p. 62	Sept. 20

	Issue
Many Interesting Features at New Spanish Integrated Mill. —Giuseppe Viola ... p. 40	Sept. 27
New Kraft Pulp Mill of Kymin Osakeyhtio—Kymmene Now in Operation. —P. G. Michelson ... p. 42	Apr. 26
New Mills and Machines—Canada Plans Tentative, Proposed or Nebulous. ... p. 52	Nov. 8
New Mills and Major Expansions, Canada —Confirmed and Underway ... p. 49	Nov. 8
NZ Mill Closest to South Pole Uses Refiner Groundwood ... p. 40	July 19
Pedras Brancas Operates New Specialty Paper Machine in Brazil ... p. 42	Dec. 13
Pulp and Paper Exports Move Strongly Upward in 1964. —Eric G. Lagerloef ... p. 36	Jan. 18
Pulp and Paper Industry in Cuba Today. —R. S. Sawhney ... p. 74	Oct. 11
Rothesay Has World's Widest Machine in Full Operation ... p. 38	May 24
Serlachius Adds Ninth Machine at Its Mantta Mill in Finland ... p. 39	Nov. 1
Some Experiences in Starting a New Pulp Mill. —Ralph E. McCallum ... p. 37	Jan. 4
Well-Known Calaisienne Mill Adds Kraft Pulping. —Bernard de la Touche ... p. 34	Mar. 22
Wiggins Teape Uses Sorter-Cutter To Improve Coated Paper Quality ... p. 26	Dec. 27

Maintenance

Developing a Maintenance Program for Small Mills. —Roger A. Harrison ... p. 39	Jan. 25
Hows and Whys of Packing and Gaskets. —William J. Bowler ... p. 63	Oct. 11
How to Develop, Present and Control the E & R Budget. —Bert Carson ... p. 43	Oct. 4
The Standing Job Order—An Asset or Liability? —Bert Carson ... p. 64	Nov. 15

Market Data

Capacity Survey Shows Mixed Picture. —John C. W. Evans ... p. 44	Nov. 29
A Look Ahead at the Pulp and Paper Industry.—A. Kenneth Beggs ... p. 37	Mar. 8
Olmsted Highlights Industry Problems ... p. 34	Mar. 8
Paper Explosion in the Institutions Market.—Fergus McKeever ... p. 72	Dec. 6
Previewing the Marketplace of 1975. —James W. McSwiney ... p. 40	Feb. 15
Pricing Problems are Major Force Affecting the Industry. —W. R. Adams ... p. 35	Mar. 8
Where are We Going in Paperboard Packaging? —George H. Weyerhaeuser ... p. 61	Nov. 15

Material Handling

Alaska Mill Installs Automatic Bale Wrapping Units ... p. 35	Mar. 1
Controlled Vibration is Key to Moving Dry Bulk Materials.—E. A. Wahl ... p. 55	June 21
Hammermills New In-Process Roll Storage System Uses Overhead Crane. ... p. 44	Mar. 22
How Australian Paper Manufacturers, Ltd. Cuts Shipping Costs by Pelleting Pulp ... p. 63	Aug. 6
How Great Southern Trims Linerboard Shipping Costs ... p. 35	Aug. 23
Modernized Material Handling Cuts Shipping Costs at Keyes Fibre Co. —John T. Sutton ... p. 34	July 26
How Wet Machine-Cutter Line Handles Kraft Pulp at Warren's Muskegon Mill. ... p. 64	Aug. 9
Radio-Controlled Crane Eases Paper Roll Handling for Hammermill ... p. 57	July 12

Mechanical Pulping

New Kind of Grinder in Operation at Swedish Mill.—Allan U. Westvind ... p. 26	Jan. 4
Production of Disk Refiner Groundwood at High Consistency. —Martin O. Salterelli ... p. 48	Apr. 19
Trends and Developments in Pulping. —G. H. Tomlinson II ... p. 62	Nov. 8

Mill Management

Developing a Maintenance Program for Small Mills.—Roger A. Harrison ... p. 39	Jan. 25
From Where are We Going to Get the Engineers? ... p. 32	May 3
How to Develop, Present and Control the E & R Budget.—Bert Carson ... p. 43	Oct. 4
Improving Industry Identity and Public Understanding at the Local Mill Level.—Reginald B. Wells ... p. 40	Nov. 1
Olmstead Highlights Industry Problems. ... p. 34	Mar. 8
The Standing Job Order—An Asset or Liability?—Bert Carson ... p. 64	Nov. 15

	Issue
Survey Shows Salaries of Paper Industry Engineers. —Charles P. Klass ..... p. 54	Oct. 18

Miscellaneous

British Viewpoint on Research and Industry.—George F. Underhay .... p. 67	Nov. 8
ESPRA—A Unique Research Entity. —Edwin C. Jahn ..... p. 66	Nov. 8
From Where Are We Going to Get the Engineers? ..... p. 32	May 3
How Australian Paper Manufacturers, Ltd. Cuts Shipping Costs by Pelleting Pulp ..... p. 63	Aug. 6
How to Develop, Present and Control the E & R Budget.—Bert Carson ... p. 43	Oct. 4
How to Organize a Medium-Size Research and Development Operation. —D. B. Wicker ..... p. 64	Sept. 20
Improving Industry Identity and Public Understanding at the Local Mill Level.—Reginald B. Wells ..... p. 40	Nov. 1
How Wet Machine-Cutter Line Handles Kraft Pulp at Warren's Muskegon Mill ..... p. 64	Aug. 9
Olmsted Highlights Industry Problems ..... p. 34	Mar. 8
Plastics-Paper Conferees Recognize Communication Problem. —Charles P. Klass ..... p. 54	Oct. 25
Pricing Problems are Major Force Affecting the Industry. —W. R. Adams ..... p. 35	Mar. 8
Pulp and Paper Industry in Cuba Today.—R. S. Sawhney ..... p. 74	Oct. 11
Survey Shows Salaries of Paper Industry Engineers.—Charles P. Klass .... p. 54	Oct. 18
Three Paper Mills Find New Dry Chemical Solves Vexsome Fire Protection Problems. ..... p. 50	Apr. 5
Utilization of Research —Paul C. Baldwin ..... p. 64	Nov. 8

New Mills and Machines

Brownville Solves Doctor and Shower Problems ..... p. 35	June 28
Canadian Consolidated Installs New Machine at Wayagamack ..... p. 36	Apr. 12
Canadian Expansion is Coast to Coast. p. 48	Nov. 8
Carolina Paper Mills Spring Back From Fire with Increased Production .... p. 18	Feb. 1
CCC's Los Angeles Coating Installation Completes Coast-to-Coast Program. —Charles P. Klass ..... p. 30	Aug. 23
Celulosa Argentina Has Continuous Digester on Cold Soda ..... p. 48	May 17
Clearwater Tissue Mill Has Unusual Building, Versatile Converting Plant. —Charles P. Klass ..... p. 42	July 19
Current and Proposed U.S. New Mill, Major Modernization and Expansion Projects ..... p. 41	Jan. 25
CZ's Versatile Multi-station Coater Opens New Converting Horizon. —Arthur N. Aronsen ..... p. 42	May 10
Dutch Mill Expands Production of Coated Printing Papers ..... p. 30	Jan. 11
English Mill Starts Up New Lightweight Fine Paper Machine ..... p. 46	Oct. 25
Georgia-Pacific's Samoa Mill is First to Commercially Pulp Redwood. —Charles P. Klass ..... p. 46	Nov. 22
Glatfelter's New Publication Paper Machine Gets Underway ..... p. 42	May 17
Halltown Modernizes and Doubles Production of Cylinderboard Grades. —Roger A. Harriman ..... p. 46	Nov. 8
How Major Paper Machine Rebuild Was Done with Minimum Downtime. —J. M. Hammon ..... p. 30	Mar. 1
How Pakistan's Khulna Newsprint Mill Gets Its Pulpwood ..... p. 66	Aug. 9
How to Find Your Way Among the B.C. Mill Projects.—Pat Carney ..... p. 54	Nov. 8
Indian Mill Produces Printing Papers from Bagasse Pulp.—D. K. Misra .. p. 47	Apr. 26
Kalamazoo Paper Co. Replaces Brush Coaters With High Speed Air Knife. —Charles P. Klass ..... p. 42	Oct. 25
Kimberly-Clark Dedicates California's First Coated Printing Paper Mill. —Charles P. Klass ..... p. 42	June 14
K-C's Shasta Mill Boasts World's First Reinforced Plastic Continuous Flow Bleach Towers ..... p. 30	Aug. 16
Menasha's New Nine Point Machine Has All Stainless Steel Wet End. —Charles P. Klass ..... p. 36	Nov. 1
Mile-a-Minute Tissue Machine Begins Operation at New C-Z Oregon Mill. —Charles P. Klass ..... p. 42	Nov. 22
"The Nathan H. Bergstrom" Foils, Fabrics Highlight New Machine —Charles P. Klass ..... p. 38	Mar. 15
New Kraft Pulp Mill of Kymin Osakeyhtio-Kymmene Now in Operation.—P. G. Michelsson ..... p. 42	Apr. 26

	Issue
New Machine at Milford Has Many New Interesting Features ... p. 48	Nov. 29
New Mills and Machines—Canada Plans Tentative, Proposed or Nebulous ... p. 52	Nov. 8
New Mills and Major Expansions, Canada—Confirmed and Underway ... p. 49	Nov. 8
New Mills and Major Expansions U.S. ... p. 28	Aug. 30
Newton Falls' New Paper Machine Goes On-line in Record Time —Harry Dyer ... p. 44	Feb. 22
Northwest's Mountie Joins Coated Printing Paper Ranks.—Harry Dyer p. 70	Oct. 11
NZ Mill Closest to South Pole Uses Refiner Groundwood ... p. 40	July 19
Oxford UPs Production Improves Quality at Rumford.—John C. W. Evans ... p. 23	Aug. 2
Pedras Brancas Operates New Specialty Paper Machine in Brazil ... p. 42	Dec. 13
Rex Paper Co. Converts School Supply Paper into Profits —Charles P. Klass ... p. 60	Oct. 11
Rothesay Has World's Widest Machine in Full Operation ... p. 38	May 24
Serlachius Adds Ninth Machine At Its Mantta Mill in Finland ... p. 39	Nov. 1
Simplicity Pattern Co. Expands—Stevens Former Doubles Tissue Capacity.—Charles P. Klass ... p. 67	Sept. 13
Some Experiences in Starting a New Pulp Mill.—Ralph E. McCallum ... p. 37	Jan. 4
Standard Paper to Continue Modernization Program ... p. 50	June 21
Tileston & Hollingsworth Gears Up to Give Same Day Service. —Charles P. Klass ... p. 55	Apr. 26
Unusual New Fine Paper Machine in Sweden ... p. 54	Nov. 22
Unusual New Mosinee Yankee Has Many Interesting Details —Nelson E. Woodruff ... p. 34	Feb. 15
Well-Known Calaisienne Mill Adds Kraft Pulping.—Bernard de la Touche ... p. 34	Mar. 22

Papermaking

	Issue
Accurate Footage Counts Reduce Broke Losses.—Sol Steinberg ... p. 48	Apr. 5
Breakthrough in Rotoformer Design Permits 1000 f.p.m. Speeds ... p. 60	Feb. 22
Control of Headbox Variables Can Improve Machine Operation. —J. Mardon, D. W. Manson, B. I. Howe and J. C. DeLisle ... p. 42	Jan. 11
Finish Mill Experience With The Divided Press. —Kai K. Nalsas ... p. 42	Apr. 19
Forming Boxes Increase Production and Improve Quality. —O. Svensson and O. Brauns ... p. 38	Apr. 5
How and Why of Rotoformer Operation. —Martin B. Keller ... p. 34	Aug. 16
How Fitchburg Uses Ultra-Sonic Centrifuge to Defoam Sozes ... p. 43	Aug. 30
How Oxford Paper Co. Solved a Sheet Shrinkage Problem ... p. 55	Nov. 15
How Wet End Variables Affect Basis Weight Uniformity. —J. Mardon, D. W. Manson, B. I. Howe and J. C. DeLisle ... p. 36	June 28
Hydrofoil Design and Application Is An Evolving Science.—B. A. Thorp ... p. 37	Jan. 11
Important Points in the Manufacture of Sanitary Tissues for Converting. —H. Scruton ... p. 36	May 31
Instrumentation to Automation—The Machine Builder's Problem. —P. M. Schaffrath ... p. 24	Feb. 1
Machine Problems and Paper Uniformity ... p. 50	Dec. 13
Moisture Measurement and the Progressive Papermaker.—L. D. Edenborough ... p. 30	Dec. 20
New Attachment Improves Calender Stack Operation. —Paul M. Schaffrath ... p. 57	Nov. 22
New Fabric Press Development Greatly Simplifies Operation.—A. Eiderbrant and O. Swanberg ... p. 32	June 28
New Method for Preventing Foam Spots in Paper.—C. R. Hedenstad ... p. 37	Oct. 4
New Suction Box Design and Cover Material ... p. 38	Jan. 18
New "Vacu-foils" Provide Adjustability, High Dewatering Power. —R. C. Clark ... p. 52	June 21
Norwegian Moisture Controller Uses Temperature Drop Principle ... p. 70	Aug. 9
Operating Experiences With Controls of Totally Enclosed Hoods. —William Swanson ... p. 25	Feb. 1
Paper Machine Draw and Speed Control at S. D. Warren.—Arnold Cliff ... p. 30	Feb. 1
Paper Machine Operation For Maximum Paper Quality ... p. 28	Dec. 27
Progress Report on Felt Application for Ventaa-Nip Grooved Rolls. —David McConaughy ... p. 41	July 5

	Issue
Providing Accurate Footage Count of Winder Rolls.—Al Vickery ..... p. 28	Feb. 1
Refiner Control from Couch Vacuum. —William R. Nelson ..... p. 22	Feb. 1
Revolution in the Process of Water-marking.—Dr. H. P. Dixson ..... p. 45	Aug. 30
Rothesay Has World's Widest Machine in Full Operation ..... p. 38	May 24
Simple Ratio Computer for Paper Machines Shows Many Advantages . p. 54	Feb. 22
Some Questions and the Answers on the Vertical Sheet Former ..... p. 38	Oct. 4
Stainless Steel Wires Setting Records At Nicolet Paper Co. ..... p. 55	June 7
Web Guiding and Control in the Paper Industry.—William M. Gallahue .... p. 38	Mar. 29
What Is A Gum? Why Is It Used? How Is It Applied? And Where? —A. J. Winchester ..... p. 38	Dec. 20

Production Data

Canadian Industry—Highs in All Areas —R. M. Fowler ..... p. 36	Feb. 8
Growth in Production, Consumption, Employment and Profits in 1964 ... p. 32	Jan. 18
Industry Makes Sixth Consecutive New High in 1964.—Morris C. Dobrow .. p. 41	Mar. 1
What Happened in '64—Outlook for '65 —B. Slatin ..... p. 33	Jan. 18

Research

British Viewpoint on Research and Industry.—George F. Underhay .... p. 67	Nov. 8
ESPRA—A Unique Research Entity. —Edwin C. Jahn ..... p. 66	Nov. 8
ESPRA Celebrates 20th Anniversary . p. 60	Nov. 8
How to Organize a Medium-Size Research & Development Operation. —D. B. Wicker ..... p. 64	Sept. 20
Utilization of Research. —Paul C. Baldwin ..... p. 64	Nov. 8

Semi-Chemical Pulping

Celulosa Argentina Has Continuous Digester on Cold Soda ..... p. 48	May 17
New Fluidized Bed System Produces Saltcake from Spent NSSC Liquor . p. 43	July 26
NZ Mill Closest to South Pole Uses Refiner Groundwood ..... p. 40	July 19
Trends and Developments in Pulping. —G. H. Tomlinson II ..... p. 62	Nov. 8

Slime Control & Mill Sanitation

Background of Control of Micro-Organisms in Mill Systems. —J. R. Sanborn ..... p. 52	June 7
Four Steps to Control Troublesome Outbreaks of Slime. —J. R. Sanborn ..... p. 56	Oct. 18
How to Control the Microbiological Content of Paper and Board. —J. R. Sanborn ..... p. 56	Nov. 8
Identification of Species and Micro-Organisms Found in Paper Mill Systems.—J. R. Sanborn ..... p. 41	Oct. 4
Microbiological Control Problems in Pulp and Paper Mills. —J. R. Sanborn ..... p. 40	Jan. 18
Mill Microbiological Surveys—What, Why and How.—J. R. Sanborn ..... p. 39	May 31
Modern Trends in Mill Slime Control Programs.—J. R. Sanborn ..... p. 74	Sept. 13
Nature of Slime-forming and Other Troublesome Micro-organisms. —J. R. Sanborn ..... p. 42	Feb. 15
Non-Biological Deposits Associated with Slime Problems.—J. R. Sanborn .... p. 42	Mar. 29
Paper Mill Sanitation and Microbiological Control.—J. R. Sanborn ..... p. 51	Oct. 25
Preventative Control Is Vital for a Planned Slime Control Program. —J. R. Sanborn ..... p. 41	Aug. 23
Role of Surface Active Slimicides in Mill Control.—J. R. Sanborn ..... p. 49	July 19
Role of Bacteriological Counts in Evaluation and Control of Slime. —J. R. Sanborn ..... p. 43	Sept. 27
Selection of Slimicides—Nature of Problems Dictates Control Agent. —J. R. Sanborn ..... p. 59	July 12
Stainless Steel Wires Average Sixty Days, Cuts Costs at Kingsport ..... p. 52	Feb. 22
Temperature as a Factor in Mill Slime Control and Sanitation. —J. R. Sanborn ..... p. 34	July 5

Stock Preparation

Cylinder Machine Stock Preparation—Screening, Refining and Control. —E. M. Baker ..... p. 48	Feb. 8
How Fitchburg Uses Ultra-Sonic Centrifuge to Defoam Sizes ..... p. 43	Aug. 30
How Well Can We Control Consistency? —Bert Johnson ..... p. 38	Apr. 12
Improve Stock Delivery—Make Better Cylinder Board.—Karl J. Knauer ... p. 32	Jan. 25
Refiner Control From Couch Vacuum. —William R. Nelson ..... p. 22	Feb. 1

	Issue
Selection and Use of Secondary Fibers In Cylinder Board Manufacturing. —O. P. Fussell ..... p. 78	Dec. 6
Stock Buying, Feeding and Cleaning— First Steps to Cylinder Machine Profit.—E. M. Baker ..... p. 30	Jan. 4
What, Where, Why and How of Twin Hydradisc Refining. —H. P. Espenmiller and W. Herbert p. 74	Dec. 6
What are the Sources of Contaminating Organisms in Mills?—J. R. Sanborn p. 44	Apr. 12

Sulphite Pulping

Absorption of Sulphur Dioxide in Sulphite Cooking Acid Preparation. —Herman F. J. Wenzl ..... p. 36	Mar. 22
Developments in Recovery of Sulphite Cooking Chemicals. —Hermann F. J. Wenzl ..... p. 51	June 14
Effect of Acidity, Pressure, Time and Temperature in Sulphite Pulping. —Hermann F. J. Wenzl ..... p. 47	Apr. 12
Evaporation and Burning of Sulphite Spent Liquors. —Hermann F. J. Wenzl ..... p. 69	June 7
Influence of Capillarity and Diffusion in Sulphite Pulping. —Hermann F. J. Wenzl ..... p. 51	Apr. 5
Influence of Decomposition Products in Sulphite Pulping —Hermann F. J. Wenzl ..... p. 56	Apr. 19
Influence of Different Bases in Sulphite Pulping. —Hermann F. J. Wenzl ..... p. 50	Apr. 26
Magnesium Sulphite Processes . . . A Challenge to Kraft? —John L. Date ..... p. 54	Sept. 6
New Fluidized Bed System Produces Saltcake from Spent NSSC Liquor. . . p. 43	July 26
Progress in Continuous Sulphite Pulping. —Hermann F. J. Wenzl ..... p. 52	May 17
Progress in High Yield Sulphite Pulping. —Hermann F. J. Wenzl ..... p. 46	May 24
Shredded Chips Lower Penobscot's Sulphite Pulping Costs. —Herbert Freedman ..... p. 36	Aug. 2
St. Croix Converts Successfully to Magnesium Bisulphite Pulping. .... p. 50	Feb. 22
Sulphite Digesters: Impregnation and Forced Circulation Systems. —Hermann F. J. Wenzl ..... p. 52	May 3
Sulphite Spent Liquor—Its Properties and Composition. —Hermann F. J. Wenzl ..... p. 47	May 31
Sulphur Dioxide Production for Sulphite Cooking Acid. —Hermann F. J. Wenzl ..... p. 34	Mar. 15
Trends and Developments in Pulping. —G. H. Tomlinson II ..... p. 62	Nov. 8
Trends in Wood Preparation for Sulphite Pulping. —Hermann F. J. Wenzl ..... p. 36	Mar. 1
Use of Multiple Stages and Two Bases in Sulphite Pulping. —Hermann F. J. Wenzl ..... p. 54	May 10
Use of New Package Absorption System for Magnefite Acid. —J. M. Richards ..... p. 69	Sept. 20
What Happens to the Wood in a Sulphite Digester? —Hermann F. J. Wenzl ..... p. 44	Mar. 29

Waste Paper

Deinking—An Art Reaches to Become a Science. —Charles P. Klass ..... p. 46	Oct. 18
Selection and Use of Secondary Fibers in Cylinder Board Manufacturing. —O. P. Fussell ..... p. 78	Dec. 6
Stock Buying, Feeding and Cleaning— First Steps to Cylinder Machine Profit.—E. M. Baker ..... p. 30	Jan. 4

Water

Solution to Water Treatment for Consolidated Paper Corp. —Denis R. Gaber ..... p. 32	Feb. 1
White Water and Effluent Systems for Cylinder Machine Mills. —Karl J. Knauer ..... p. 32	Jan. 11

Wood and Wood Handling

How Pakistan's Khulna Newsprint Mill Gets Its Pulpwood ..... p. 66	Aug. 9
Major Innovations in Barking Drum Design.—T. P. Hanson ..... p. 36	Mar. 29
More Canadian Woodhandling Conference Papers ..... p. 72	Sept. 20
Prototype Barker Pays Off in Profits For Oregon Sawmill. —Charles P. Klass ..... p. 40	July 26
Three New Chippers Now in Use in Sweden.—Herman Vogt ..... p. 26	Dec. 20
Trends in Wood Preparation for Sulphite Pulping.—Hermann F. J. Wenzl ... p. 36	Mar. 1
What Happens to the Wood in a Sulphite Digester?—Hermann F. J. Wenzl .. p. 44	Mar. 29
Woodhandling—The Last Frontier in the Battle to Cut Operating Costs. —Harry Dyer ..... p. 63	Sept. 13

Author Index to 1965 Feature Articles

A

Adams, W. R.—Pricing Problems Are Major Force Affecting the Industry—35, Mar. 8.

Armstrong, Robert A.—Cylinder Machine Vat Operation—Key to Improved Grade Capabilities—41, Mar. 22; New Cylinder Former Designs—Necessary for Survival?—43, Mar. 15.

Aronsen, Arthur N.—CZ's Versatile Multi-Station Coater Opens New Converting Horizon—42, May 10.

B

Baker, E. M.—Cylinder Machine Operating Problems—A troubleshooter's Guide—44, July 26; Cylinder Machine Stock Preparation—Screening, Refining and Control—48, Feb. 8; Stock Buying, Feeding and Cleaning—First Steps to Cylinder Machine Profit—30, Jan. 4; Water Removal at the Cylinder Machine Wet End—46, July 19.

Baldauf, Gunther H. and Nadelman, Alfred H.—The ABC's of Coating Additives—43, Nov. 1; Coating Adhesives—Their Use in Formulations—46, Oct. 4; Coating Colors Must Be Formulated to Fit the Application Equipment—82, Dec. 6; Coating Formulation—Principles and Practices—73, Aug. 9; Coloring Materials for Coating Formulations—50, Oct. 18; Coating Pigments—Their Use in Formulations—70, Sept. 13; Printing Methods Dictate Coating Formulations—74, Aug. 9; What Do Coating Adhesives Have in Common?—57, Sept. 6; What the Formulator Needs to Know About Coating Color Preparation Systems—66, Nov. 15.

Baldwin, Paul C.—Utilization of Research—64, Nov. 8.

Beggs, Kenneth A.—A Look Ahead at the Pulp and Paper Industry—37, Mar. 8.

Bing, Alexander III—Financial Review of Paper Industry for 1966.—29, Dec. 27.

Bowler, William J.—Hows and Whys of Packing and Gaskets—63, Oct. 11.

Boyer, Donald R.—New Design in Conventional Bottom Felt Improves Finish of Cylinder Boards—34, Jan. 4.

Brauns, O. and Svensson, O.—Forming Boxes Increase Production and Improve Quality—38, Apr. 5.

Brown, L. H. and Rubeck, M. H.—Felt Application for Cylinder Machines I-43, Apr. 5; —Felt Application for Cylinder Machines II—51, Apr. 19.

C

Cable, J. A.—A Double Volute Pump Casing Is Not a Panacea—39, Aug. 30.

Carney, Pat—How to Find Your Way Among the B. C. Mill Projects—54, Nov. 8.

Carson, Bert—How to Develop, Present and Control the E & R Budget—43, Oct. 4; The Standing Job Order—An Asset or Liability?—64, Nov. 15.

Castagne, M. R.—Paper Bags Show Steady Growth—Producers Optimistic for Future—43, May 24.

Chandler, William D.—Organization and Practice of Industrial Engineering in the Smaller Company—42, May 31.

Clark, R. C.—New "Vacu-foils" Provide Adjustability, High Dewatering Power—52, June 21.

Cliff, Arnold—Paper Machine Draw and Speed Control at S. D. Warren—30, Feb. 1.

Collins, Jr.—New Systems Proposed for Kraft Mill Odor Control and Heat Recovery—34, May 31.

D

Date, John L.—Magnesium Sulphite Processes . . . A Challenge to Kraft?—54, Sept. 6.

Davis, A. S.—Flame Safeguards and Other Safety Instrumentation in Recovery Boilers—36, Aug. 23

De La Touche, Bernard—Well-Known Calaisienne Mill Adds Kraft Pulping—34, Mar. 22.

DeLisle, J. C. and Mardon, J.; Manson, D. W.; Howe, B. I.—Control of Headbox Variables Can Improve Machine Operation—42, Jan. 11; How Wet End Variables Affect Basis Weight Uniformity—36, June 28.

Diehm, Robert A.—Coating Cylinder Machine Board—Key to an Improved Market Position—42, June 28.

Dixson, Dr. H. P.—Revolution in the Process of Watermarking—45, Aug. 30.

Dobrow, Morris C.—Industry Makes Sixth Consecutive New High in 1964—41, Mar. 1.

Duncan, Shel—Future of Paper and Board in Frozen Food Packaging—48, May 3.

Dyer, Harry—Newton Falls' New Paper Machine Goes On-line in Record Time—44, Feb. 22; Northwest's Mountie Joins Coated Printing Paper Ranks—70, Oct. 11; Woodhandling—The Last Frontier in the Battle to Cut Operating Costs—63, Sept. 13.

E

Edenborough, L. D.—Moisture Measurement and the Progressive Papermaker—30, Dec. 20.

Eiderbrant, A. and Swanberg, O.—New Fabric Press Development Greatly Simplifies Operation—32, June 28.

Espenmiller, H. P. and Herbert, W.—What, Where, Why and How of Twin Hydradisc Refining—74, Dec. 6.

Evans, John C. W.—Capacity Survey Shows Mixed Picture—44, Nov. 29; NPA Holds Outstanding Annual Meeting—42, Nov. 29; Oxford UPs Production—Improves Quality at Rumford—23, Aug. 2.

F

Fowler, R. M.—Canadian Industry—High in All Areas—36, Feb. 8.

Freedman, Herbert—Fluidized-Solids Lime Increases Bleaching Liquor Yield by Ten Per Cent—50, July 12; Shredded Chips Lower Penobscot's Sulphite Pulping Costs—36, Aug. 2.

Fussell, O. P.—Selection and Use of Secondary Fibers in Cylinder Board Manufacturing—78, Dec. 6.

G

Gaber, Denis R.—Solution to Water Treatment for Consolidated Paper Corp.—32, Feb. 1.

Gallahue, William M.—Web Guiding and Control in the Paper Industry—38, Mar. 29.

Garman, G. L.—Effective Instrumentation or Mere Hardware Application—Which are You Getting?—44, Apr. 19.

Gregersen, A. and Larsson, K. O.—Temperature Build-Up in Filled Supercalender Rolls—Its Nature and Possible Elimination—39, Aug. 16.

Grunwald, Fritz B.—Improving Cylinder Board Finishing—Calendering, Reeling and Sheeting—53, Nov. 29; Operation of Cylinder Board Machine Dryers, Smoothing Press and Size Press—56, Nov. 15.

Gryant, Richard E.—How to Optimize Sheeter Productivity—44, May 3.

H

Halsas, Kai K.—Finish Mill Experience with the Divided Press—42, Apr. 19.

Hammon, J. M.—How Major Paper Machine Rebuild Was Done with Minimum Downtime—30, Mar. 1.

Hanson, T. P.—Major Innovations in Barking Drum Design—36, Mar. 29.

Harriman, Roger A.—Halltown Modernizes and Doubles Production of Cylinderboard Grades—46, June 21.

Harrison, Roger A.—Developing A Maintenance Program for Small Mills—39, Jan. 25.

Hedenstad, C. R.—New Method for Preventing Foam Spots in Paper—37, Oct. 4.

Herbert, W. and Espenmiller, H. P.—What, Where, Why and How of Twin Hydradisc Refining—74, Dec. 6.

High, R. L. and Rogols, S.—Cooking and Use of Starch in Papermaking and Coating—44, Dec. 13.

Howe, B. I. and Mardon, J.; Manson, D. W.; DeLisle, J. C.—Control of Headbox Variables Can Improve Machine Operation—44, Dec. 13; How Wet End Variables Affect Basis Weight Uniformity—36, June 28.

Hrutford, Bjorn F. and McKean, William T. Jr. and Sarkanen, K. V.—Kinetic Analysis of Odor Formation in Kraft Pulping—41, Aug. 30.

J

Jahn, Edwin C.—ESPRA—A Unique Research Entity 66, Nov. 8.

Johnson, Bert—How Well Can We Control Consistency? —38, Apr. 12.

K

Keller, Martin B.—How and Why of Rotoformer Operation—34, Aug. 16.

Kessler, R. P.—Developments in Multiwall Sacks—Construction, End Uses, Barrier Sheets and Adhesives —50, Sept. 6.

Klass, Charles, P.—CCC's Los Angeles Coating Installation Completes Coast-to-Coast Program—30. Aug. 23; Clearwater Tissue Mill Has Unusual Building, Versatile Converting Plant—42, July 19; Columbia Ribbon and Carbon Mfg. Co. Develops Own Sheet Inspection Unit—70, Dec. 6; Deinking—An Art Reaches to Become a Science—46, Oct. 18; Fletcher Enters Office Copy Paper Field With Multi-Process Coating Line—50, Nov. 29; Georgia-Pacific's Samoa Mill Is First to Commercially Pulp Redwood—46, Nov. 22; High Attendance and Lively Discussion-Features of Coating Conference —48, May 24; Kalamazoo Paper Co. Replaces Brush Coaters With High Speed Air Knife—42, Oct. 25; Kimberly-Clark Dedicates California's First Coated Printing Paper Mill—42, June 14; Kraft . . . Today's Strength . . . Tomorrow's Challenge—26, July 5; Menasha's New Nine Point Machine Has All Stainless Steel Wet End—36, Nov. 1; Mile-a-Minute Tissue Machine Begins Operation at New C-Z Oregon Mill—42, Nov. 22; "The Nathan H. Bergstrom"—Foils, Fabrics Highlight New Machine—38, Mar. 15; Plastics-Paper Conferees Recognize Communication Problem—54, Oct. 25; Prototype Barker Pays Off in Profits for Oregon Sawmill—40, July 26; Rex Paper Co. Converts School Supply Papers Into Profits—60, Oct. 11; Simplicity Pattern Co. Expands—Stevens Former Doubles Tissue Capacity —67, Sept. 13; Survey Shows Salaries of Paper Industry Engineers—54, Oct. 18; Tileston & Hollingsworth Gears Up to Give Same Day Service—55, Apr. 26; Vinyl Lined Lagoon Solves Riegels Black Liquor Storage Problem—34, Mar. 29.

Knauer, Karl J.—Improve Stock Delivery—Make Better Cylinder Board—32, Jan. 25; White Water and Effluent Systems For Cylinder Machine Mills—32, Jan. 11.

Kroeschell, W. O.—Recent Trends in Folding Carton Construction—46, Mar. 22.

L

Lagerloef, Eric G.—Pulp and Paper Exports Move Strongly Upward in 1964—36, Jan. 18.

Larsson, K. O. and Gregersen, A.—Temperature Build-up in Filled Supercalender Rolls—Its Nature and Possible Elimination—39, Aug. 16.

Lawrence, L. A.—Progress Report On Inverform Installations—50, June 14.

M

Manson, D. W. and Mardon, J.; Howe, B. I.; and DeLisle, J. C.—Control of Headbox Variables Can Improve Machine Operation—42, Jan. 11; How Wet End Variables Affect Basis Weight Uniformity—36, June 28.

Mardon, J. and Manson, D. W.; Howe, B. I.; DeLisle, J. C.—Control of Headbox Variables Can Improve Machine Operation—42, Jan. 11; How Wet End Variables Affect Basis Weight Uniformity—36, June 28.

Mather, Glenn—PAPER CANS—Most Dynamic Converting Operation Today—55, May 17.

McCallum, Ralph E.—Some Experiences in Starting A New Pulp Mill—37, Jan. 4.

McConaughy, David—Progress Report on Felt Application For Venta-Nip Grooved Rolls—41, July 5.

McDowell, R. C.—New Concept in Multiwall Bag Design —51, May 17.

McGuire, E. Patrick and Roland, Leonard—Resin and Resin Blend Adhesives for Converting—57, Feb. 22; Starch and Dextrine Adhesives for Converting —36 Jan. 25; Which and How of Adhesive Application in Converting—32, Mar. 1.

McKean, William T. Jr. and Hrutford, Bjorn F. and Sarkanen, K. V.—Kinetic Analysis of Odor Formation in Kraft Pulping—41, Aug. 30.

McKeever, Fergus—Paper Explosion in the Institutions Market—72, Dec. 6.

McSwiney, James W.—Previewing the Marketplace of 1975—40, Feb. 15.

Michelsson, P. G.—New Kraft Pulp Mill of Kymin Osakeyhtio—Kymmene Now in Operation—42, Apr. 26.

Misra, D. K.—Indian Mill Produces Printing Papers from Bagasse Pulp—47, Apr. 26.

N

Nadelman, Alfred H. and Baldauf, Gunther H.—The ABC's of Coating Additives—43, Nov. 1; Coating Adhesives—Their Use in Formulations—46, Oct. 4; Coating Colors Must Be Formulated to Fit the Application Equipment—82, Dec. 6; Coating Formulation—Principles and Practices—73, Aug. 9; Coating Pigments—Their Use in Formulations—70, Sept. 13; Coloring Materials for Coating Formulations—50, Oct. 18; Printing Methods Dictate Coating Formulations—74, Aug. 9; What Do Coating Pigments Have in Common?—42, Aug. 16; What the Formulator Needs to Know About Coating Color Preparation Systems—66, Nov. 15.

Nelson, William R.—Refiner Control From Couch Vacuum—22, Feb.1.

P

Pearson, Leslie, S.—New Design of High Speed Rotary Cutter—57, June 7.

R

Richards, J. M.—Use of New Package Absorption System for Magnefite Acid—69, Sept. 20.

Rogols, S. and High, R. L.—Cooking and Use of Starch in Papermaking and Coating—44, Dec. 13.

Roland, Leonard and McGuire, E. Patrick—Starch and Dextrine Adhesives for Converting—36, Jan. 25; Resin and Resin Blend Adhesives for Converting—57, Feb. 22; Which and How of Adhesive Application in Converting—32, Mar. 1.

Rubeck, M. H. and Brown, L. H.—Felt Application for Cylinder Machines I—43, Apr. 5; Felt Application for Cylinder Machines II—51, Apr. 19.

S

Salterelli, Martin O.—Production of Disk Refiner Groundwood at High Consistency—48, Apr. 19.

Sanborn, J. R.—Background of Control of Micro-Organisms in Mill Systems—52, June 7; Four Steps to Control Troublesome Outbreaks of Slime—56, Oct. 18; How to Control the Microbiological Content of Paper and Board—56, Nov. 8; Identification of Species and Micro-Organisms Found in Paper Mill Systems—41, Oct. 4; Microbiological Control Problems in Pulp and Paper Mills—40, Jan. 18; Mill Microbiological Surveys—What, Why and How—39, May 31; Modern Trends in Mill Slime Control Programs—74, Sept. 13; Nature of Slime-forming and Other Troublesome Micro-organisms—42, Feb. 15; Non-Biological Deposits Associated with Slime Problems—42, Mar. 29; Paper Mill Sanitation and Microbiological Control—51, Oct. 25; Preventative Control Is Vital for a Planned Slime Control Program—41, Aug. 23; Role of Bacteriological Counts in Evaluation and Control of Slime—43, Sept. 27; Role of Surface Active Slimicides in Mill Control—49, July 19; Selection of Slimicides—Nature of Problems Dictates Control Agent—59, July 12; Temperature as a Factor in Mill Slime Control and Sanitation—34, July 5; What are the Sources of Contaminating Organisms in Mills?—44, Apr. 12.

Sarkanen, K. V. and McKean, William T. Jr. and Hrutford, Bjorn F.—Kinetic Analysis of Odor Formation in Kraft Pulping—41, Aug. 30.

Sawhney, R. S.—Pulp and Paper Industry in Cuba Today—74, Oct. 11.

Schaffrath, P. M.—Instrumentation to Automation The Machine Builder's Problem—24, Feb. 1; New Attachment Improves Calender Stack Operation—57, Nov. 22.

Schrock, Raymond L.—Cylinder Machine Drives—Then and Now—I—36, July 5; Cylinder Machine Drives Then and Now—II—52, July 12.

Scruton, H.—Important Points in the Manufacture of Sanitary Tissues for Converting—36, May 31.

Shadduck, LeMoin M.—How Hammermill Achieved Clean, Dry Instrument Air—51, July 19.

Shera, Brian L.—Bleach Plant Chlorination Stage—Problems and Solutions—42, Apr. 12.

Sidebottom, A. W.—How the Wolvercote Paper Machine Computer Installation Operates—32, Aug. 16.

Slatin, B.—What Happened in '64—Outlook for '65—33, Jan. 18.

Spaulding, C. A.—Revolution in Prepackaging of Fruits and Vegetables—32, Mar. 15.

Steinberg, Sol—Accurate Footage Counts Reduce Broke Losses—48, Apr. 5.

Sutton, John T.—Modernized Material Handling Cuts Shipping Costs at Keyes Fibre Co.—34, July 26.

Svensson, O. and Brauns, O.—Forming Boxes Increase Production and Improve Quality—38, Apr. 5.

Swanberg, O. and Eiderbrant, A.—New Fabric Press Development Greatly Simplifies Operation—32, June 28.

Swanson, William—Operating Experiences with Controls of Totally Enclosed Hoods—25, Feb. 1.

T

Thorp, B. A.—Hydrofoil Design and Application Is An Evolving Science—37, Jan. 11.

Tomlinson II, G. H.—Trends and Developments in Pulping—62, Nov. 8.

U

Underhay, George F.—British Viewpoint on Research and Industry—67, Nov. 8.

V

Vickery, Al—Providing Accurate Footage Count of Winder Rolls—28, Feb. 1.

Viola, Giuseppe—Many Interesting Features At New Spanish Integrated Mill—40, Sept. 27.

Vogt, Herman—Three New Chippers Now in Use in Sweden—26, Dec. 20.

W

Wahl, E. A.—Controlled Vibration is Key to Moving Dry Bulk Materials—55, June 21.

Weisgerber, George A.—Wax Treated Corrugated Boxes are Finding Growing Use—50, May 10.

Wells, Reginald B.—Improving Industry Identity and Public Understanding at the Local Mill Level—40, Nov. 1.

Wenzl, Hermann F. J.—Absorption of Sulphur Dioxide in Sulphite Cooking Acid Preparation—36, Mar. 22; Developments in Recovery of Sulphite Cooking Chemicals—51, June 14; Effect of Acidity, Pressure, Time and Temperature in Sulphite Pulping—47, Apr. 12; Evaporation and Burning of Sulphite Spent Liquors—69, June 7; Influence of Capillarity and Diffusion in Sulphite Pulping—51, Apr. 5; Influence of Decomposition Products in Sulphite Pulping—56, Apr. 19; Influence of Different Bases in Sulphite Pulping—50, Apr. 26; Progress in Continuous Sulphite Pulping—52, May 17; Progress in High Yield Sulphite Pulping—46, May 24; Sulphite Digesters: Impregnation and Forced Circulation Systems—52, May 3; Sulphite Spent Liquor—Its Properties and Composition—47, May 31; Sulphur Dioxide Production for Sulphite Cooking Acid—34, Mar. 15; Trends in Wood Preparation for Sulphite Pulping—36, Mar. 1; Use of Multiple Stages and Two Bases in Sulphite Pulping—54, May 10; What Happens to the Wood in a Sulphite Digester?—44, Mar. 29.

Westvind, Allan U.—New Kind of Grinder in Operation at Swedish Mill—26, Jan. 4.

Weyerhaeuser, George H.—Where Are We Going in Paperboard Packaging?—61, Nov. 15.

Wicker, D. B.—How to Organize a Medium-Size Research and Development Operation—64, Sept. 20.

Winchester, A. J.—What is a Gum? Is it Used? How is it Applied? And Where?—38, Dec. 20.

Woodruff, Nelson E.—Unusual New Mosinee Yankee Has Many Interesting Details—34, Feb. 15.